ANNUAL REPORT

1990 - 1991

MANITOBA HEALTH RESEARCH COUNCIL

S107 - 750 Bannatyne Avenue

Winnipeg, Manitoba R3E 0W3

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92-07572/

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MEMBERS OF THE MANITOBA HEALTH RESEARCH COUNCIL

Dr. A.R. Ronald*, Chairman (until December 1990)
- Head, Department of Medicine, University of Manitoba.

Dr. J.L. Hamerton*, Chairman (starting December 1990)
- Head, Department of Human Genetics, University of Manitoba.

Dr. N.R. Anthonisen**
- Dean, Faculty of Medicine, University of Manitoba.

Dr. C. Becker (starting December 1990)
- Manitoba Health Research & Planning Directorate

Dr. H.G. Friesen*
- Head, Department of Physiology, University of Manitoba.

Dr. J. Horne
- Senior Vice President, Corporate Planning & Development.

Dr. J.C. Jamieson*
- Head, Department of Chemistry, University of Manitoba.

Dr. R.E. Jordan (starting December 1990)
- Dean, Faculty of Dentistry, University of Manitoba.

Ms B. Lillie (starting December 1990)
- Peat Marwick Thorne

Ms N. McCormick (until December 1990)
- President, Corporate Health Works.

Dr. J. Newton (starting December 1990)
- Manitoba Adolescent Treatment Centre

Mr. G. Palmer*
- Sellors & Associates.

Dr. J. Steele
- Dean, Faculty of Pharmacy, University of Manitoba.

Prof. F.M. Vaisey-Genser**
- Associate Vice-President (Research), University of Manitoba.

* Members of the Executive/Finance Committee
** Appointed by the University of Manitoba

COUNCIL SECRETARIAT

Executive Director	- Dr. Frits C. Stevens
Administrative Secretary	- Mrs. Lorraine Morley

REPORT OF THE CHAIRMAN

I am pleased to present my first report as Chair of the Manitoba Health Research Council. The former Chair, Dr. Alan Ronald, left on research study leave at the beginning of July 1990 and I took over the affairs of Council as Acting Chair at that time. I was appointed Chair on January 1, 1991.

Demands on Council have continued to increase as fiscal restraints persist at both the federal and provincial levels, resulting in our universities coming under increasing pressure to reduce costs, and the transference of some of the costs, traditionally borne by the university, to the individual investigators. Investigators are thus under continuing stress to send grant applications to as many agencies as possible in order to maintain their programs. This has resulted in increasing competition at all levels, increased work for external reviewers who often receive the same application from several sources, and an increasing burden on the granting agencies, who are trying to maintain excellence in the face of reduced funds and increased numbers of applications. It is clear that this cycle cannot continue for much longer without some aspects of the system breaking down. If we are to maintain our present standards, let alone restore our position in this Province to where it was five years ago, more money must be injected into the system. The Manitoba Health Research Council has received the same grant from the Province for the past two years, reflecting a drop in real purchasing power available to investigators of at least 10 - 15%, this at a time of increasing costs and massive developments in technology which must be introduced if this Province is to remain competitive at a national and international level.

It is unclear how the Manitoba Health Research Council should approach these problems. In order to begin the planning process for the next decade the Council held a strategic planning session in November 1990 at the Winnipeg Winter Club. This resulted in the development of

a Strategic Plan which was presented to the Minister of Health, the Honourable Donald W. Orchard, in April 1991. Central to this Strategic Plan was the development of a mission statement as follows:

> **The Manitoba Health Research Council has as its purpose the allocation of resources to support basic and applied research in health and health-related fields; research which has the potential to improve the health status and delivery of health services to the population of Manitoba. In addition to encouraging and developing all aspects of health research, Council maintains an advisory role to the people and Government of Manitoba on matters pertaining to the development, promotion and implementation of policies and programs which support and enhance health research and economic development opportunities relating to health research in the Province.**

Council believes that this mission statement incorporates Council's dual role, reflected in the Act of the Legislature by which it was formed, both to support basic and applied research as well as to act in an advisory role to the people and Government of Manitoba on matters pertaining to health research. Council intends to take a more active role in this area in the future. In June 1991 Council was invited to advise the Minister of Health on the need for, amount, and location of new research space on the Health Sciences Campus to house new research facilities for the Children's Hospital Research Foundation, the Health Sciences Centre Foundation and the University of Manitoba. Council reported to the Minister at the end of October and recommended that five floors of new research space be included in the projected "University Downtown Centre," which will be sited where the Pincock Building is presently located on Emily. The Minister has also requested Council to develop a Strategic Plan for the long term development of health research in the Province. We will begin to tackle this task in 1992.

In April 1991 Council celebrated its 10th anniversary with a highly successful one day symposium entitled "Research for Future Health"; the keynote speaker was Dr. John Evans (Chairman, Allelix Biopharmaceuticals) who spoke on "Research and the Future of Health Care". Other speakers included a cadre of senior investigators who highlighted research advances and

topics which will have an impact on health care in the nineties, including ageing, neuroscience, biotechnology, human genetics, AIDS, and a research agenda for the North. The symposium was followed by a reception at Government House which recognised Council's 10 year contribution to the development of health research in Manitoba. This symposium was a fitting end to the first ten years of Council's work, recognising the solid achievements of that decade, the dedicated work of previous Chairs Dr. Lyonel Israels, Dr. Ken Hughes, and Dr. Alan Ronald, and the foresight of those who worked so hard to establish Council in 1981. It was also fitting that we were received at Government House by His Honour, the Lieutenant Governor George Johnson, who was the Deputy Minister of Health at the time of Council's formation. Most importantly the symposium was a reflection of things to come, emphasising the relationship between, and the importance of, basic and clinical research in the delivery of future health care to Manitobans and Canadians and highlighting the impact of health research on health care delivery as we move towards the 21st century.

Council's regular grants and awards competitions, including the Strategic Health Research Initiative, have continued and the results of these competitions are summarised elsewhere in this report. The Strategic Health Research Initiative, which has one more year to run, continues to play a significant role in helping to develop research programs which will have a significant economic impact on the Province. Council introduced a new program in 1991 to partially support significant research symposia and workshops being held in Manitoba. This has proved popular and Council has approved the award of funds in partial support of three symposia since the program began earlier this year. These are listed elsewhere in the report.

There is little doubt that in the future Council will be playing a more active role in the development of health research policy in Manitoba. It will also be urgently lobbying the Minister of Health for an increase in budget for 1992-1993. It will have been three years since Council has had a budget increase, and a failure to award increased funding for 1992 will result in a lowered ability to fulfil our mandate effectively.

I would like to note one staff change during the year. Mrs Lorraine Morley left Council's employ in March to accompany her husband to Bangladesh. We wish her well and take this opportunity to thank her for six years of dedicated work for Council. Ms Liz Ford replaced Mrs. Morley in March and we welcome her and look forward to a long association. Ms Ford has an extensive background with the Manitoba Arts Council and her constant good humour and efficiency in the face of difficulties is much appreciated.

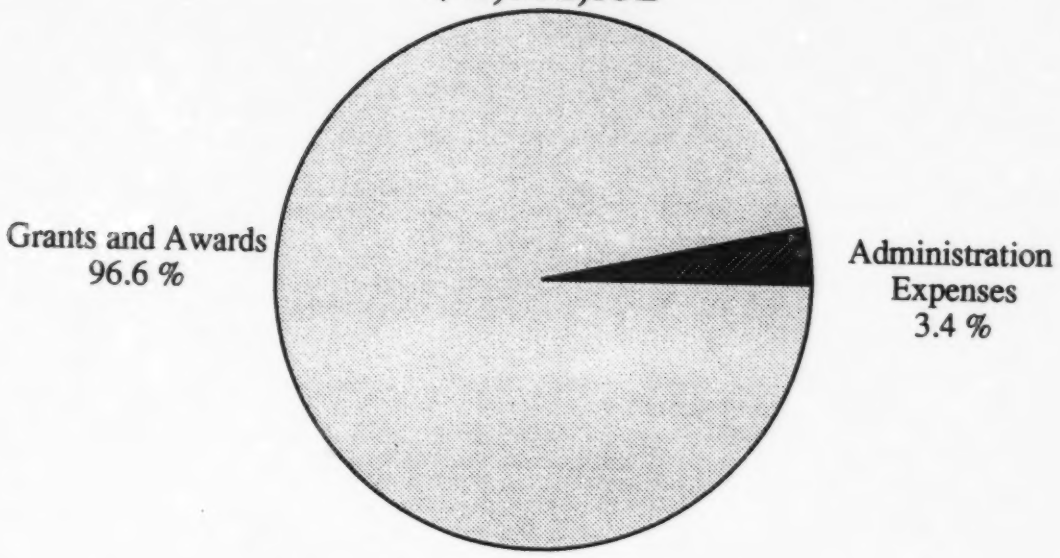
In conclusion I would like to express my personal appreciation for the work done over the year by Council members, chairs, and members of review committees. I should also note with thanks the work done by the many external reviewers, many of whom are outside the Province and without whom we would be unable to function effectively. In particular I should like to offer Council's warmest best wishes to Dr. Henry Friesen who was one of the founders of Council, and who will be leaving Council and his position as Head of the Department of Physiology at the University of Manitoba to take up the position of President of the Medical Research Council of Canada. Finally I wish to express my personal appreciation for the work of Dr. Frits Stevens who has been Executive Director since Council was established. Dr. Stevens' dedication to the work of Council and the maintenance of excellence and fairness in all our procedures is unsurpassed. He has been a tremendous help to me personally and I take this opportunity to express my sincere thanks.

Respectfully submitted,

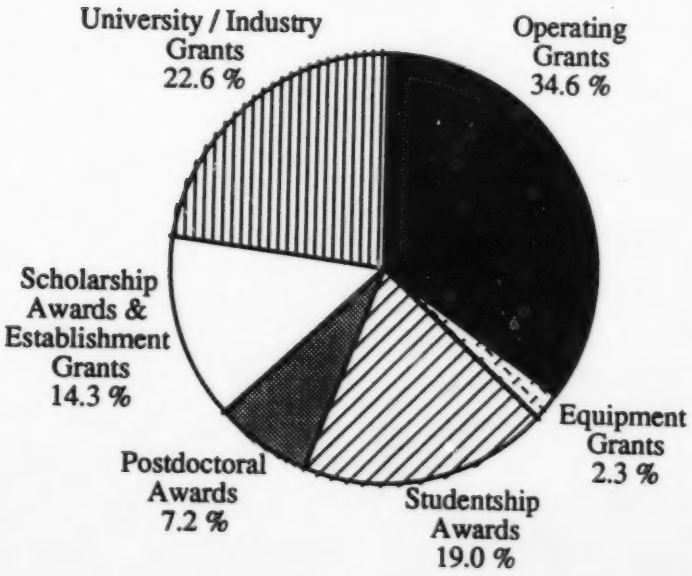
John L. Hamerton, D.Sc., FCCMG
Chairman

OVERVIEW OF 1990 - 91 EXPENDITURES

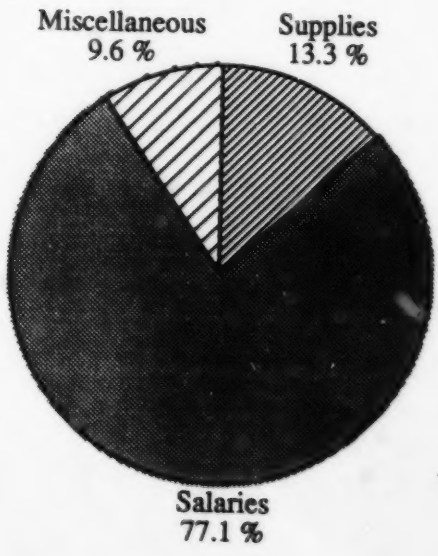
Total Expenditures
$ 2,861,852



Grants and Awards
$2,765,944



Administration
$ 95,908



Office of
the Provincial Auditor

905 - 386 Broadway
Winnipeg, Manitoba, CANADA
R3C 3R6

AUDITOR'S REPORT

To the Legislative Assembly of Manitoba

We have audited the balance sheet of The Manitoba Health Research Council as at March 31, 1991 and the statement of revenues, expenditures and fund balances for the year then ended. These financial statements are the responsibility of the Council's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the Council as at March 31, 1991 and the results of its operations for the year then ended in accordance with the accounting policies stated in note 3 to the financial statements.

Winnipeg, Manitoba
September 24, 1991

F. H. Jackson, CA
Provincial Auditor

THE MANITOBA HEALTH RESEARCH COUNCIL

MANAGEMENT REPORT

The accompanying financial statements are the responsibility of management and have been prepared in accordance with stated accounting policies disclosed in Note 3. In management's opinion the financial statements have been properly prepared and of necessity include some amounts based upon management's best estimates and judgements.

As management is responsible for the integrity of the financial statements, management has established systems of internal control to provide assurance that assets are properly accounted for and safeguarded from loss.

F.C. Stevens, Ph.D
Executive Director

THE MANITOBA HEALTH RESEARCH COUNCIL

Balance Sheet
as at March 31, 1991

ASSETS	1991	1990
Cash and short term investments	$ 3,809,683	$ 2,777,461
Grants receivable from Manitoba Lotteries Foundation	-	203,053
Accrued interest receivable	18,709	9,364
	$ 3,828,392	$ 2,989,878
LIABILITIES AND UNEXPENDED FUNDS		
Current Liabilities		
Accounts payable	$ 14,053	$ 3,899
Research grants payable	1,143,697	763,322
	1,157,750	767,221
Non-current research grants payable	70,000	75,000
	1,227,750	842,221
Unexpended Funds		
Reserve for the Strategic Health Research Development Fund	2,243,216	1,649,792
Reserve for General Fund	357,426	497,865
	2,600,642	2,147,657
	$ 3,828,392	$ 2,989,878

Approved on behalf of Council:

Director

Director

THE MANITOBA HEALTH RESEARCH COUNCIL

Statement of Revenues, Expenditures and Fund Balances for the year ended March 31, 1991.

	Strategic Health Research Development Fund	General Fund	1991	1990
REVENUES:				
Grants:				
Province of Manitoba	$1,000,000	$1,947,300	$2,947,300	$2,000,000
Manitoba Lotteries Fdn.	-	-	-	1,947,306
Returned grant funds	-	43,181	43,181	78,068
Interest	265,972	58,384	324,356	273,081
	1,265,972	2,048,865	3,314,837	4,298,455
EXPENDITURES:				
Research grants	624,594	2,141,350	2,765,944	2,714,336
Administration expenses	47,954	47,954	95,908	76,334
	672,548	2,189,304	2,861,852	2,790,670
Revenues over(under) expenditures	593,424	(140,439)	452,985	1,507,785
FUND BALANCES:				
Beginning of year	1,649,792	497,865	2,147,657	639,872
End of year	$2,243,216	$ 357,426	$2,600,642	$2,147,657

THE MANITOBA HEALTH RESEARCH COUNCIL

Administration Expenses
for the year ended March 31, 1991

	1991	1990
Accounting and audit	$ 3,450	$ 3,100
Bank charges	131	125
Council and committee expenses	2,993	782
Insurance	125	125
Office equipment	(43)	2,595
Postage and delivery	2,027	1,350
Printing and stationery	12,754	3,757
Salary and benefits	73,973	64,018
Telephone	498	482
Total administration expenses	$ 95,908	$ 76,334

THE MANITOBA HEALTH RESEARCH COUNCIL

Notes to the Financial Statements
for the year ended March 31, 1991

1. INCORPORATION AND FUNCTION

The Manitoba Health Research Council was established by The Manitoba Health Research Council Act to promote and assist basic, clinical and applied research in the health sciences in Manitoba. The Council relies entirely on grants from the Province of Manitoba through the Department of Health for continued existence.

2. CHARITABLE STATUS

The Manitoba Health Research Council is a registered charity within the meaning of the Income Tax Act.

3. SIGNIFICANT ACCOUNTING POLICIES

a) An accrual basis of accounting is used except for office equipment purchases, which are charged to expenditures in the year of acquisition.

b) Research grants are charged to expenditures when funding is approved by the Council.

c) Administration expenses are allocated equally to the General Fund and the Strategic Health Research Development Fund.

d) Interest income is allocated to the General Fund and the Strategic Health Research Development Fund based on the monthly balance of each fund.

4. STRATEGIC HEALTH RESEARCH DEVELOPMENT PROGRAM

The Province of Manitoba established a fund of $4 million to be allocated to qualified research and development projects in the health industry sector in Manitoba. To date $3 million have been received and $1 million are expected to be received in the 1991/92 fiscal year.

5. COMPARATIVE FIGURES

Prior years have been restated to conform to the classifications adopted for the fiscal year ended March 31, 1991.

MANITOBA HEALTH RESEARCH COUNCIL 1990-91 COMPETITION

GENERAL FUND

OPERATING & EQUIPMENT SCIENTIFIC REVIEW COMMITTEE

Dr. A. Froese (Chairman), Department of Immunology,
University of Manitoba.

Dr. J. Davie, Department of Biochemistry & Molecular Biology,
University of Manitoba.

Dr. T.A. Dick, Department of Zoology,
University of Manitoba.

Dr. G.W. Hammond, Director,
Cadham Laboratories, Winnipeg.

Dr. K. Hayglass, Department of Immunology,
University of Manitoba.

Dr. R.Y.K. Man, Department of Pharmacology & Therapeutics,
University of Manitoba.

Dr. D. McCrea, Department of Physiology,
University of Manitoba.

Dr. L.J. Murphy, Department of Physiology,
University of Manitoba.

Dr. J. O'Neil, Department of Chemistry,
University of Manitoba.

Dr. J.A. Paterson, Department of Anatomy,
University of Manitoba.

Dr. B. Penner, Department of Pharmacology & Therapeutics,
University of Manitoba.

Dr. G. Pierce, Department of Physiology,
University of Manitoba.

Dr. G. Sutherland, Department of Surgery,
University of Manitoba.

Dr. R. Warrington, Department of Internal Medicine,
University of Manitoba.

PERSONNEL REVIEW COMMITTEE

Dr. J. Evans (Chairperson), Department of Human Genetics,
University of Manitoba.

Dr. J.M. Bowness, Department of Biochemistry & Molecular Biology,
University of Manitoba.

Dr. R. Bose, Department of Pharmacology & Therapeutics,
University of Manitoba.

Dr. J.E. Bruni, Department of Anatomy,
University of Manitoba.

Dr. J. Dodd, Department of Physiology,
University of Manitoba.

Dr. I. Hamilton, Department of Oral Biology,
University of Manitoba.

Dr. L. Jordan, Department of Physiology,
University of Manitoba.

Dr. F. Kisil, Department of Immunology,
University of Manitoba.

Dr. L. Nicolle, Department of Internal Medicine,
University of Manitoba.

Dr. B. Schacter, Department of Internal Medicine,
University of Manitoba.

Dr. R. Woods, Department of Human Genetics,
University of Manitoba.

Dr. J.A. Wright, Cell Biology Institute,
University of Manitoba.

SOCIAL & BEHAVIOURIAL REVIEW COMMITTEE

Dr. N.P. Roos (Chairperson),Department of Community Health Sciences,
University of Manitoba.

Dr. J. Beaton, School of Nursing,
University of Manitoba.

Ms J. Clinch,
St. Boniface General Hospital Research Centre.

Dr. L. Garro, Department of Community Health Sciences,
University of Manitoba.

Dr. K. Grant, Department of Sociology,
University of Manitoba.

Dr. G. Rockman, Department of Psychology,
University of Winnipeg.

Dr. K. Wilson, Department of Psychiatry,
University of Manitoba.

Dr. K. Young, Department of Community Health Sciences,
University of Manitoba.

SYMPOSIUM SUPPORT REVIEW COMMITTEE

Dr. J.L. Hamerton (Chairman), Department of Human Genetics
University of Manitoba

Dr. H. Friesen, Department of Physiology,
University of Manitoba

Dr. J. Jamieson, Department of Chemistry,
University of Manitoba

Mr. G. Palmer, Sellors & Associates

LIST OF OPERATING GRANTS

Investigator(s), Department, Institution. Project Title.	Award Amount
BARAL, Edward & BERCZI, Istvan, Cell Biology Institute, Manitoba Cancer Treatment & Research Foundation. The effect of estradiol and tamoxifen on lymphocyte reactions.	$ 35,000
BLACK, Charlyn, Community Health Sciences, U. of Manitoba. Patterns of medical referral in Manitoba: a pilot study.	25,000
BOLLI, Peter, Internal Medicine, U. of Manitoba. Platelet activation by low density lipoprotein cholesterol and its interaction with high density lipoprotein.	42,500
DUKE, Peter C. & DOAK, Gregory J., Anaesthesia, U. of Manitoba. Effect of oral clonidine on ketamine induction of anaesthesia in humans.	10,000
GALLOWAY, Terry D., Entomology, SEKLA, Lyla, Medical Microbiology, U. of Manitoba & STACKIW, Walter, Cadham Provincial Laboratory. An investigation of the vectors and reservoir hosts of Borrelia burgdorferi (the Lyme Disease spirochaete) in Manitoba.	31,000
GIETZ, Roman D., Human Genetics, U. of Manitoba. The genetic analysis of the yeast RAD6 ubiquitin ligase function: a gene involved in DNA repair, mutagenesis and sporulation.	40,000
HAMMOND, Gregory W., Medical Microbiology, U. of Manitoba. Diagnostic thyroid function testing in Manitoba: a pilot study.	18,000
ISRAELS, Sara J., Pediatrics, U. of Manitoba. Platelet function in the newborn.	32,500
JAY, Francis T., Medical Microbiology, U. of Manitoba. Mapping of functional epitopes on the human interferon gamma.	43,000
JOHNSTON, Janine L., Internal Medicine, U. of Manitoba. Smooth pursuit and vor cancellation during unpredictable vestibular stimulation.	27,900

Operating Grants (continued)

KANFER, Julian N., Biochemistry & Molecular Biology, U. of Manitoba. Phospholipase-D mediated signal transduction in human neuroblastoma cells.	$ 28,000
KAUFERT, Joseph M., Community Health Sciences, McKENZIE, John K., Nephrology, U. of Manitoba & HAWKINS, Audrey A., Health Sciences Centre. The impact of renal failure and relocation for treatment from rural to urban centres on native and non-native patients in Manitoba.	20,000
KRYGER, Meir H. & ANDERSON, Brian A., Internal Medicine, U. of Manitoba. Noctural headaches and sleep.	14,000
MAN, Ricky K.Y., Pharmacology & Therapeutics, U. of Manitoba. Coronary vascular effects of platelet-activating factor.	30,000
McCLARTY, Grant A. & BRUNHAM, Robert C., Medical Microbiology, U. of Manitoba. The thymidylate cycle in Chlamydia trachomatis.	34,400
McKENNA, Rachel M., Internal Medicine, U. of Manitoba. Sensitivity and resistance to cyclosporin.	39,000
MUTCH, W.Alan C., THOMSON, Ian R., Anaesthesia & TESKEY, John M., Surgery, St. Boniface General Hospital. Incidence of paraplegia following thoracic aortic cross-clamping: comparison of two techniques to control proximal aortic hypertension.	41,000
NAGY, James I., Physiology, U. of Manitoba. Neuroanatomy of neuronal and glial gap junctions in the CNS during development.	35,000
O'NEIL, Joe D.J., Chemistry, U. of Manitoba. Hydrogen exchange measurements of dynamics in adenylate kinase by NMR spectroscopy.	16,000
PARASKEVAS, Frixos, Internal Medicine, U. of Manitoba. Regulation of lymphokine production by T cells.	41,000
PENNER, S.Brian & SMYTH, Donald D., Pharmacology & Therapeutics, U. of Manitoba. Alpha-2 adrenoceptor function in humans.	26,000
PERSAUD, Trivedi V.N., Anatomy, U. of Manitoba. Can methionine and zinc prevent the adverse effects of alcohol on the fetus?	21,000

Operating Grants (continued)

PIANOSI, Paul T., Pediatric Respirology, U. of Manitoba. Cardiac output, ventilation and desaturation on exercise in cystic fibrosis.	$ 35,000
RAYNER, David C., Pathology, U. of Manitoba. T cell reactivity in experimental thyroid autoimmunity.	30,000
ROOS, Leslie L., Community Health Sciences & MORRIS, Andrew L., Cardiology, U. of Manitoba. Building a data base for ischemic heart disease: acute myocardial infarction - a first project.	25,000
ROSS, Colin A., Psychiatry, St. Boniface General Hospital. A dissociative subtype of Schizophrenia.	32,000
SCOTT, J.Elliott, Oral Biology, U. of Manitoba. Role of germinal layer interactions and detention in lung development.	33,000
SUTHERLAND, Garnette R., Neurosurgery, PEELING, W. James, Chemistry & ROSS, Brian D., Radiology, U. of Manitoba. Domoic acid induced seizures studied using electroencephalograph, nuclear magnetic resonance and histopathology.	35,000
VRIEND, Jerry, Anatomy, U. of Manitoba. Melatonin-induced inhibition of catecholamine turnover in Syrian hamsters.	20,100
WALKER, John R., ELDRIDGE, Gloria D., RALLO, Joseph S., O'RIORDAN, John, Psychiatry, St. Boniface General Hospital & FRANKEL, Sid, Social Work, U. of Manitoba. Effectiveness of a self-administered treatment manual for panic disorder with agoraphobia used individually, in a self-help group, or in a professionally-led group.	25,900
WILSON, Keith G., Psychiatry & ROOS, Noralou P., Community Health Sciences, U. of Manitoba. Medical utilization of panic disorder.	34,145
ZARAIN-HERZBERG, Angel, Physiology, U. of Manitoba. Regulation of gene expression during myocardial development.	35,000
	$ 955,445

EQUIPMENT GRANTS

Investigator(s), Department, Institution. Project Title.	Award Amount
CHOW, Donna A., Immunology, U. of Manitoba. Gamma counter.	$ 13,000
DAVIE, James R., Biochemistry & Molecular Biology, U. of Manitoba. FPLC system.	20,000
JAY, Francis T., Medical Microbiology, U. of Manitoba. Lyophilizer.	10,000
JOHNSTON, Janine L., Internal Medicine, U. of Manitoba. Laser projector, galvanometers and amplifiers.	19,000
	$ 62,000

SYMPOSIA/MEETING COMPETITION

January 1, 1991 Competition

BEWS, Jeff, Medical Physics, Manitoba Cancer Treatment & Research Foundation. Radiation protection symposium, June 20th.	$ 1,500
KROEGER, Edward A., Medicine, U. of Manitoba. Cytokines in medicine, June 6th.	2,500
MOFFATT, Michael E.K., Community Health Sciences, U. of Manitoba. Ambulatory pediatric research, November 15-16th.	1,000
	$ 5,000

LIST OF PERSONNEL AWARDS

SCHOLARSHIP AWARD RENEWALS

ANDERSON, Judy E., Anatomy, U. of Manitoba. Regenerated Mdx muscle.	$ 40,000
McCLARTY, Grant A., Medical Microbiology, U. of Manitoba. Reduction of ribonucleotides and DNA synthesis in chlamydiae.	40,000
MOHAPATRA, Shyam S., Immunology, U. of Manitoba. Synthesis and modification of pollen allergen(s) by recombinant DNA technology.	40,000
WATSON, Wade T.A., Pediatrics & Child Health, U. of Manitoba. Interrelationships of allergic disease.	40,000
	$ 160,000

SCHOLARSHIP AWARDS

GIETZ, R.Daniel, Human Genetics, U. of Manitoba. The genetic analysis of the yeast RAD6 ubiquitin ligase function: a gene involved in DNA repair, mutagenesis and sporulation.	$ 40,000
SCHMIDT, Brian J., Neurology, U. of Manitoba. Investigations of neural mechanisms generating locomotion using an in vitro model of the mammalian spinal cord.	40,000
SIMONSEN, J.Neil, Medical Microbiology, U. of Manitoba. Characterization of antigens associated with human infection with Cryptosporidium and parasite enzyme targeting.	40,000
ZARAIN-HERZBERG, Angel, Cardiovascular Science, St. Boniface General Hospital Research Centre. Regulation of gene expression during myocardial development.	40,000
	$ 160,000

ESTABLISHMENT GRANTS

GIETZ, R.Daniel, Human Genetics, U. of Manitoba. The genetic analysis of the yeast RAD6 ubiquitin ligase function: a gene involved in DNA repair, mutagenesis and sporulation.	$ 25,000
SIMONSEN, J.Neil, Medical Microbiology, U. of Manitoba. Characterization of antigens associated with human infection with Cryptosporidium and parasite enzyme targeting.	25,000
ZARAIN-HERZBERG, Angel, Cardiovascular Science, St. Boniface General Hospital Research Centre. Regulation of gene expression during myocardial development.	25,000
	$75,000

POSTDOCTORAL FELLOWSHIP AWARDS

Fellow (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
ALVARO, Ruben E. (Rigatto, Henrique), Pediatrics & Child Health, U. of Manitoba. Control of fetal and neonatal breathing.	$ 35,875
FYDA, Doreen M. (Geiger, Jonathan D.), Pharmacology & Therapeutics, U. of Manitoba. Neuropharmacology.	25,555
GHAHARY, Aziz (Murphy, Liam J.), Physiology, U. of Manitoba. Molecular endocrinology.	25,555
IWASAKI, Laura R. (McLachlan, Kenneth R.), Preventive Dental Science, U. of Manitoba. Craniofacial physiology.	33,955
MASUDA, Akitsugu (Friesen, Henry G.), Physiology, U. of Manitoba. Molecular and cell biology for postdoctoral research.	25,555
SAXENA, Satya P. (Gerrard, Jon M.), Pediatrics & Child Health, U. of Manitoba. Platelet biochemistry.	25,555
SHARMA, Sushil K. (Dakshinamurti, Kristnamurti), Biochemistry & Molecular Biology, U. of Manitoba. Studies on induced neurotransmitter release.	25,555
	$ 197,605

GRADUATE STUDENTSHIP RENEWALS

Student (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
CARVALHO, Robert S. (Yen, Edwin H.K.), Preventive Dental Science, U. of Manitoba. Craniofacial growth and development.	$ 13,850
CASEY, Graham (McAlpine, Phyllis J.), Human Genetics, U. of Manitoba. Human genetics.	13,850
GU, Mai (Man, Ricky Y.K.), Pharmacology & Therapeutics, U. of Manitoba. Cardiovascular pharmacology.	13,850
HACK, Tom F.L. (Dyck, Dennis), Psychology, U. of Manitoba. Clinical psychology training program.	13,850
HAMELIN, Kathryn J. (Bramadat, Ina), School of Nursing, U. of Manitoba. Nursing.	13,850
MENG, Heping (Pierce, Grant N.), Physiology, U. of Manitoba. Ion transport, cardiovascular physiology.	13,850
MILLER, Teresa L. (Murphy, Leigh C.), Biochemistry & Molecular Biology, U. of Manitoba. Cell biology and endocrinology of breast cancer cells.	13,850
NESCA, Marc (Kowlack, David), Psychology, U. of Manitoba. Type A behaviour pattern, coronary artery disease, REM deprivation.	13,850
NG, Pak K. (Dakshinamurti, Kristnamurti), Biochemistry & Molecular Biology, U. of Manitoba. Enzymology and protein purification.	13,850
WONG, Leo T.Y. (Geiger, Jonathon D.), Pharmacology & Therapeutics, U. of Manitoba. Neuropharmacology.	13,850
YANG, Wenzhen (Mowat, Michael), Cell Biology Institute, Manitoba Cancer Treatment & Research Foundation. Cancer research.	13,850
ZHONG, Guangming (Brunham, Robert C.), Medical Microbiology, U. of Manitoba. Microbiology.	13,850
	$166,200

GRADUATE STUDENTSHIP AWARDS

Student (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
ARMSTRONG, John D. (Kunz, Bernard A.), Microbiology, U. of Manitoba. Microbiology-molecular genetics.	$ 13,850
CARPENTER, Michael S. (DeLange, A.M. Luke), Human Genetics, U. of Manitoba. Molecular biology/genetics.	13,850
COOK, Andrew J. (Thomas, Michael R.), Psychology, U. of Manitoba. Pain (general and chronic): psychological influences.	13,850
COPELAND, Kenneth R. (Yatscoff, Randall.W.), Biochemistry & Molecular Biology, U. of Manitoba. Ph.D. in biochemistry and molecular biology.	13,850
CURRIE, Paul J. (Wilson, Linda), Psychology, U. of Manitoba. Behaviourial neuroscience/physiological psychology.	13,850
CVITKOVITCH, Dennis G. (Hamilton, Ian), Oral Biology, U. of Manitoba. Ph.D. on the molecular genetics of the PTS system of Streptococcus mutans.	13,850
DAI, Jian (Panagia, Vincenzo), Physiology, U. of Manitoba. Experimental cardiology.	13,850
DUBIK, Don (Shiu, Robert P.C.), Physiology, U. of Manitoba. Physiology/endocrinology.	13,850
GRAYSTON, Alana D. (DeLuca, Rayleen V.), Psychology, U. of Manitoba. Clinical psychology.	13,850
GUIA, Antonio (Bose, Ratna), Pharmacology & Therapeutics, U. of Manitoba. Respiratory and cardiovascular pharmacology.	13,850
HALL, Madelyn (Grant, Karen), Sociology, U. of Manitoba. Medical sociology.	13,850
HENDZEL, Michael J. (Davie, James R.), Biochemistry & Molecular Biology, U. of Manitoba. Biochemistry/molecular biology.	13,850
JABR, Rita (Cole, William C.), Physiology, U. of Manitoba. Cardiac electrophysiology.	13,850
LIU, Lei (Kardami, Elissavet), Physiology, U. of Manitoba. Physiology in the field of cardiac cell biology.	13,850

Graduate Studentship Awards (continued)

MAGNUSON, Bernadene A. (Bird, Ranjana P.), Foods & Nutrition, U. of Manitoba. Dietary effects on cancer development.	13,850
MENEC, Verena H. (Perry, Raymond), Psychology, U. of Manitoba. Social psychology.	13,850
NESS, David V. (LeBow, Michael D.), Psychology, U. of Manitoba. Clinical psychology.	13,850
PATON, Shirley H. (Degner, Lesley), School of Nursing, U. of Manitoba. Restorative nursing, specialization HIV infection.	13,850
PEREIRA, Frederick A. (Wrogemann, Klaus), Biochemistry & Molecular Biology, U. of Manitoba. Ph.D. in biochemistry and molecular biology.	13,850
PETERS, Myrna G. (Schmidt, Brian), Physiology, U. of Manitoba. Ph.D. - neurophysiology.	13,850
SETHI, Rajat (Dhalla, Naranjan S.), Physiology, U. of Manitoba. Pathophysiology of heart disease; biochemical mechanics in cardiovascular dysfunction.	13,850
TIPPLES, Graham A. (McClarty, Grant A.), Medical Microbiology, U. of Manitoba. M.Sc. in medical microbiology.	13,850
TYSON, Randy L. (Peeling, James), Chemistry, U. of Manitoba. Chemistry, Ph.D.	13,850
WANG, Jianfang (Fitzpatrick, Dennis W.), Foods & Nutrition, U. of Manitoba. Doctorate in foods and nutritional science.	13,850
WONG, Michael S.J. (Murphy, Leigh C.), Biochemistry & Molecular Biology, U. of Manitoba. Ph.D. in biochemistry and molecular biology.	13,850
ZU, Xiangwei (Jay, Francis T.), Medical Microbiology, U. of Manitoba. M.Sc./Ph.D. in medical microbiology.	13,850
	$ 360,100

MANITOBA HEALTH RESEARCH COUNCIL

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STRATEGIC HEALTH RESEARCH DEVELOPMENT FUND

JANUARY 15, 1990 COMPETITION

UNIVERSITY/INDUSTRY OPERATING GRANTS

Investigator(s), Department, Institution/Company. Project Title.	Year	Award MHRC	 Company
YATSCOFF, R.W., JEFFERY, J.R., THLIVERIS, J.A.,	1	50,000	98,557
McKENNA, R.M., RUSH, D.N., HONCHARIK, N. &	2	50,000	63,460
SILVERMAN, R.E., Medicine, U. of Manitoba.	3	50,000	37,983
Preclinical and clinical evaluation of cyclosporin G.		$150,000	$200,000

MAY 15, 1990 COMPETITION

UNIVERSITY/INDUSTRY OPERATING GRANTS

Investigator(s), Department, Institution/Company. Project Title.	Year	Award MHRC	 Company
RIGATTO, Henrique, Pediatrics & Child Health, U. of Manitoba.	1	$ 75,000*	$ 88,750
A new monitoring strategy for the sick newborn infant.	2	75,000*	98,513
SHALEV, Shlomo, EL-SAYED, Samy, LARSSON, Stephan	1	93,000	103,000
& VIGGARS, David, Manitoba Cancer Treatment & Research	2	54,000	64,000
Foundation. Three-dimensional planning for radiation therapy.			
SHIU, Robert P.C., Physiology, U. of Manitoba.	1	62,000	120,000
Establishment of a core facility in molecular DNA biotechnology.	2	27,800	---
		$ 386,800	474,263

* This application was submitted for increased funding and replaces a 1989-90 award for Dr. Rigatto which was rescinded. The increase in funding for the first year is $20,545 and $13,120 for the second year.

INDUSTRIAL FELLOWSHIP

Fellow (Supervisor), Department, Institution/Company. Project or Field of Research.	Year	Award MHRC	 Company
SEMELKA, Richard C., St. Boniface General Hospital Research Centre.	1	$ 17,938	(in kind)
Industrial fellowship at the Siemens medical imaging facility in Erlangen, West Germany.			
		$ 17,938	(in kind)

SEPTEMBER 15, 1990 COMPETITION

UNIVERSITY/INDUSTRY OPERATING GRANTS

Investigator(s), Department, Institution/Company. Project Title.	Year	Award MHRC	Award Company
BRANDES, Lorne J., Manitoba Cell Biology Institute/ ABI Biotechnology, Inc. Clinical development and in vivo testing of DPPE, intracellular histamine antagonist which increases therapeutic index of cancer chemotherapy drugs.	1	$ 75,000	$ 75,000
GERRARD, Jon M., Pediatrics & Child Health, U. of Manitoba/ Vita Health. Flax oil and psoriasis.	1	32,500	50,000
MATUSIK, Robert J. & WOLOSKI, B. Michael R.M.J., Physiology, U. of Manitoba/ABI Biotechnology, Inc. Characterization of immunosuppressive prostatic protein.	1 2	22,809* 13,132*	69,300 72,764
		$ 143,441	267,064

* Amounts originally awarded were $60,987 for the first year and $64,036 for the second year. Subsequently the project was funded mainly through a Medical Research Council of Canada University-Industry Award.

OPPORTUNITIES FUND

Applicants Name, Department, Institution/Company. Project or Field of Research.	Year	Award MHRC	Award Company
COTE, Dennis D., Pharmaceutical Innovations, St. Boniface General Hospital Research Centre/CEM Corporation. The destruction of antineoplastic drug residues using microwave radiation.	1	22,750	23,000
		$22,750	23,000

JANUARY 15, 1991 COMPETITION

UNIVERSITY/INDUSTRY OPERATING GRANTS

Investigator(s), Department, Institution/Company. Project Title.	Year	Award MHRC	Award Company
CHERNICK, Victor, Department of Pediatrics, U of M/ Childvent. Development and testing of a microsize combination metal oxide antimony electrode for the continuous measurement of tissue and fetal scalp pH.	1	$ 20,000	$ 20,000
		$ 20,000	$ 20,000